

PLUMBER

A student who has completed the Job Corps Plumber program is equipped with the skills to contribute to the workplace as a valued employee from day one. Competence in academic and vocational skills is required for graduation. In addition, Job Corps students learn employability and technological skills. To complete his or her Plumber training, a student must master skills in these categories:

PLUMBER, PRE-APPRENTICE

SAFETY

Demonstrate personal, shop and electrical safety procedures according to OSHA regulations; demonstrate first-aid techniques.

TOOLS

Identify and use basic hand, power and pipe tools.

MATH

Perform basic math applications (i.e. fractions, decimals, percentages, etc.); read a rule.

PIPE CUTTING AND JOINING

Identify plumbing materials and fittings related to pipe cutting and joining; sweat copper.

PLUMBING SYSTEM AND INSTALLATION

Install water pipes, gas pipes and DWV pipe with various materials (i.e., copper, PVC, black iron, cast iron).

MAINTENANCE AND REPAIR

Remove obstructions from main sewer drains using a sewer machine or a toilet auger; disassemble/assemble "p traps" to clear drains with power/sink cleaning machine; check and maintain plumbing systems.

PLUMBER, APPRENTICE PRE-APPRENTICE SKILLS PLUS THE FOLLOWING:

MATH

Calculate the slope for building sewer lines; scale blueprints.

PIPE CUTTING AND JOINING

Join pipes using brazing method; use cut-off/chop saw; join C.I. no-hub pipe with no-hub couplings and spigot C.I. pipe with Neoprene gaskets.

PLUMBING SYSTEM INSTALLATION

Rough-in DWV systems for full bath; install water distribution systems and gas piping.

PLUMBING SYSTEM TESTING

Pressure-test water distribution system/air/hydro; conduct water tests on building drains; locate leaks.

MAINTENANCE AND REPAIR

Remove obstructions from drain lines with a sewer machine; repair leaking water faucets, water closets and flushometer valves; install and maintain gas and electric water heaters.